

Chemistry core 2 (2020-2023)

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Answer all questions

① Write Kohlrausch law of independent migration of ions.

② Write notes on

Ⓐ Faraday's law of electrolysis.

Ⓑ Degree of dissociation of weak electrolyte

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Chemistry core Practical (2020-2023)

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① Write systematic method for the analysis of functional group, like  $-CONH_2$

Chemistry (GE)  
UG, Sem (IV) - (2020-23)

Answer all questions

- ① Derive rate eq<sup>n</sup> and half life of First-Order reaction.
- ② Write notes on
  - Ⓐ Bragg's law
  - Ⓑ Inert pair effect.

Chemistry Practical (GE) (2020-23)

- ① Write systematic method for the analysis of any two cation and two anion in salt mixture.

UG, SEM (IV) (2020 - 2023)

Chemistry (Core VIII)

Answer all question

- ① Derive Jahn-Teller distortion in square planar geometry.
- ② Write notes on:
  - (a) Labile & inert complexes
  - (b) Lanthanides

Chemistry core IX

- ① Write Paal-Knorr synthesis of Pyridine.
- ② Write mechanism of
  - (a) Mannich reaction
  - (b) Gabriel Phthalimide synthesis.